

WHAT IS CLAIMED IS:

1. A powered slider drive interface for opening and closing a vehicle slider panel across a window aperture, comprising:

5 a slider panel;
 a regulator;
 at least first and second mechanical stops
mounted on the slider panel or the regulator, both
first and second stops having a contact surface;
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one or more mechanical stops mounted on the other of the slider panel or the regulator, the one or more stops having third and fourth contact surfaces;

15 wherein when the regulator is caused to move in a first direction the first stop contact surface is brought into mechanical contact with the third contact surface, thus urging the slider panel into an open position;

20 further, wherein when the regulator is caused
to move in a second direction, the second stop
contact surface is brought into mechanical contact
with the fourth contact surface, thus urging the
slider panel into a closed position.

2. The powered slider drive interface of claim 1,
wherein the mechanical contacts are selectively non-
attached pushing or pulling mechanical contacts, thus
allowing the slider panel to freely slide without
5 binding and requiring precise alignment between the
regulator and the slider panel.

3. The powered slider drive interface of claim 1,
wherein separate drive bumpers are disposed on each of
10 the slider panel stops.

4. The powered slider drive interface of claim 3,
wherein the composition of the drive bumpers, contact
surfaces, or stops, comprises plastic.

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5. The powered slider drive interface of claim 4,
wherein the plastic is selected from the group
consisting of ethylene propylene diene monomer,
flexible polyvinyl chloride, and urethane, or any
20 combination thereof.

6. A powered slider drive interface for opening
and closing a vehicle slider panel across a window
aperture, comprising:

25 a driver bracket including at least first and
second contact surfaces, the driver bracket being
disposed on a regulator; and

a driver receiver including at least two stops, each having a contact surface, the driver receiver being disposed on the slider panel;

5 wherein when the regulator is caused to move in a first direction, the bracket first contact surface is brought into mechanical contact with the first receiver contact surface, thus urging the slider panel into an open position; and

10 further, wherein when the regulator is caused to move in a second direction, the bracket second contact surface is brought into mechanical contact with the second receiver contact surface, thus urging the slider panel into a closed position.

15 7. A powered slider drive assembly for opening and closing a vehicle slider panel across a window aperture, comprising:

20 a driver bracket including at least a first contact surface and a second contact surface, the driver bracket being disposed on a regulator having a cable attached thereto, and the regulator being disposed on a powered slider frame; and

25 a driver receiver including at least a first receiver stop and a second receiver stop, each having a contact surface, the driver receiver being disposed on the slider panel that is

disposed in slider tracks which are positioned above and below the slider panel;

5 wherein when a powered slider controller urges the cable into a first direction, the first driver bracket contact surface is brought into mechanical contact with the first receiver contact surface, thus urging the slider panel in the slider tracks and opening at least a portion of the window aperture;

10 further, wherein when the powered slider controller urges the cable into a second direction, the second driver bracket contact surface is brought into mechanical contact with the second receiver contact surface, thus urging the slider panel in the slider tracks and closing at least a portion of the window aperture.

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8. The powered slider drive assembly of claim 7, wherein mechanical contacts between the bracket contact surfaces and receiver stops contact surfaces are selectively non-attached pushing or pulling mechanical contacts, thus allowing the slider panel to freely slide without binding and requiring precise alignment between the regulator and the slider panel.

9. The powered slider drive assembly of claim 7, wherein separate drive bumpers are disposed on each of the receiver stops.

5 10. The powered slider drive interface of claim 9, wherein the composition of the drive bumpers, contact surfaces, or receiver stops, comprises plastic.

10 11. The powered slider drive interface of claim 10, wherein the plastic is selected from the group consisting of ethylene propylene diene monomer, flexible polyvinyl chloride, and urethane, or any combination thereof.

15 12. A slider panel assembly, comprising:
a slider panel having at least one slider panel edge; and
a driver receiver including at least two receiver stops, the receiver stops being spaced apart from each other, each receiver stop having a contact surface, and the driver receiver being disposed on the slider panel and parallel to the slider panel edge.

20 25 13. The slider panel assembly of claim 12, further comprising separate bumpers disposed on each of the receiver stops.